

61-16877

Plate, A. F.
CATALYTIC AROMATIZATION OF PARAFFIN HY-
DROCARBONS. [1961] 26p. 82 refs.
Order from OTS or SLA \$2.60

61-16877

Trans. of Uspekhi Khimii (USSR) 1940, v. 9, no. 11/12,
p. 1301-1332.

DESCRIPTORS: *Hydrocarbons. *Aliphatic compounds,
Synthesis, Catalysis.

The experimental material on catalytic aromatization of
paraffins reported in the scientific and patent literature
up to 1940 is reviewed, giving a brief history of the
problem and citing some early Russian work on the sub-
ject. This material is far from exhausting the problem,
and much information in this field remains unstated or
hidden behind patent claims. (Author)

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 7)

I. Plate, A. F.

61-16977

Plate, A. F.
METHODS OF PREPARATION OF TOLUENE. [1961]
25p. 138 refs.
Order from OTS or SLA \$2.60

61-16977

I. Plate, A. F.

Trans. of Uspekhi Khimii (USSR) 1943, v. 12,
p. 189-208.

DESCRIPTORS: *Toluenes, Synthesis.

A review of Russian and non-Russian published information on the methods of preparation of toluene is given including its isolation from coal tar and from natural petroleum, as well as production by pyrolysis of natural hydrocarbon gases, processing of cracked gases, pyrolysis of fractions of petroleum oil, destructive hydrogenation of coal and shales, conversion of other aromatics, catalytic dehydrogenation of methylcyclohexane and catalytic cyclization of heptane. The highest yield of coal tar toluene corresponds to a coking temperature of 700 or 800°. (Author)
(Chemistry--Organic, TT, v. 6, no. 7)

Office of Technical Services

Plate, A. P.
CATALYTIC CONVERSIONS OF NORMAL HEXYL-
CYCLOPENTANE. [1961] 5p. 11 refs.
Order from OTS or SLA \$1.10

61-18007

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1941, no. 1, p. 206-210.

DESCRIPTORS: *Cyclopentanes, *Catalysts, Gasoline,
Catalysis, Hydrocarbons, Petroleum, Dehydrogenation,
Hexyl radicals.

The behavior of normal hexylcyclopentane was investi-
gated in the presence of platinized carbon at 290-300°
and in the presence of oxide catalysts promoting
aromatization of paraffins at 450-475°. In the first
case, scission of the five-member ring occurs in the
presence of hydrogen and a mixture of undecanes is
formed. In the second case, 20-30% aromatic hydro-
carbons are also formed. Thus, dehydrocyclization of
(Chemistry--Physical, TT, v. 6, no. 8) (over)

61-18007

I. Plate, A. P.

185130

Office of Technical Services

61-18251

Plate, A. F. and Tarasov, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS ON A VANADIUM CATALYST. IV.
DEHYDROGENATION OF SIX-MEMBERED RINGS.
[1961] 9p. 12 refs.
Order from OTS or SLA \$1. 10

61-18251

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 120-130.

DESCRIPTORS: *Hydrocarbons, *Cyclohexanes,
Methyl radicals, Dehydrogenation, *Vanadium, Cata-
lysts, Catalysis.

Dehydrogenation of cyclohexane and of methylcyclohex-
ane was investigated on a vanadium catalyst within the
temperature interval of 440 to 500°. The principal re-
action consists in this case in the formation of aro-
matics and the corresponding cycloolefins. Simultane-
(Chemistry--Organic, TT, v. 6, no. 10) (over)

I. Plate, A. F.
II. Tarasov, G. A.
III. Title: Dehydrogenation ...

Office of Technical Services

Hydrogenation of Di-2-Cyclopenten-1-Ylacetylene
Over Pd, Pt, and Ni Catalysts, by A. F. Plate,
V. I. Stanko, 8 pp.

RUSSIAN, par, Iz Ak Nauk, SSSR, Otdel Khim
Nauk, No 3, 1960, pp 1481-1489.

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Plate, A. F. and Tarasova, L. V.
ISOMERIZATION OF CYCLOHEXANE TO METHYL-
CYCLOPENTANE IN THE PRESENCE OF ALUMINUM
CHLORIDE UNDER HYDROGEN PRESSURE. [1962] 5p.
Order from ATS \$7.25
ATS-24P66R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1953,
v. 89, no. 1, p. 77-80.

DESCRIPTORS: *Cyclopentanes, *Pentanes, *Methyl
radicals, *Cyclohexanes, *Hexanes, *Aluminum com-
pounds, *Chlorides, Hydrogen, Pressure, Isomerization

(Chemistry--Physical, TT, v. 9, no. 11)

63-12606

- I. Plate, A. F.
- II. Tarasova, L. V.
- III. ATS-24P66R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Oxidation of 1-Alkyl-1-Cyclopentenes by Performic Acid
as a Method of Synthesizing 2-Alkyl-1-Cyclopentanones,
by A. F. Plate, A. A. Mel'nikov, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXI, No 3, 1960,
pp 935-942.

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Sci -
Apr 61

147,575

Preparation of Dicyclopentylmethane and 1,3-
Dicyclopentylpropane from Cyclopentadiene, by
A. P. Plate, V. I. Stanko, 4 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 12, 1958, pp 1472-1475.

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Sci

Apr 60

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Synthesis of 1,1-Dicyclopentylethane and 1,2-Dicyclopentylethane from Cyclopentadiene,
by V. I. Stanko, A. F. Platov, 5 pp.

RUSSIAN, per, Iz, Ak Nauk SSSR, Otdel Khim
Nauk, No 1, 1959, pp 115-120.

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Organic Insectofungicides. XXXV. Reaction of
1,1-Difluorotetrachlorocyclopentadiene with
some Unsaturated Compounds, by S. D. Volodkovich,
N. N. Mel'nikov, A. F. Plate, M. A. Prjanishnikova,
3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII,
No 11, 1958, pp 3123-3127.

Consultants Bureau

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Report on the Interaction of Dialkyltetramethylenesilane
With Concentrated Sulphuric Acid, by A. F. Plate.

RUSSIAN, per, Doklady Akad Nauk SSSR, Vol CII, 1955,
pp 1131-1134.

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S&I - Chemistry
Mar 58

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Poisoning Action of Some Silanes on Platinum
Catalyst, by A. P. Flate, N. A. Bolikova, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No
9, 1957, pp 2465-2472.

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in 9
Optical Method of Investigation Hydrocarbons.
Communication 9. Raman Spectra of Some Naphthenes,
by E. A. Bazmulin, A. I. Sokolovskaya, N. A.
Belikova, A. L. Liberman, A. P. Platin, 5 pp.

RUSSIAN, per Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 9, Sep 1956, 1130-1134.

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Sci. - Chem

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Structural Isomerism of Cycloheptatriene under the
Conditions of the Diels--Alder Reaction.

By E. M. Mil'vitskaya and A. F. Plate, pp. 9 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXII, No 8,
1962, pp. 2566-2575

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Preparation of Cyclopentene from Cyclo-
pentadiene, by A. F. Plate, V. I. Stenko,
2 pp

RUSSIAN, per Iz Ak Nauk SSSR, Otel Khim Nauk
No 9, Sep 1957, pp 1148-1149. 7
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Sci - Chem

Jul 57

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ATS - AT-200

The Simultaneous Conversion of Cyclopentene into
Cyclopentane and Cyclopentadiene in the Presence of
Catalysts., by A. F. Plate, M. I. Batuev (pp 4)

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pp. 805-810,

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SLA 61-13632

Sci - Chemistry

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Study of Infrared Absorption Spectra of Dicyclic
Hydrocarbons, by S. V. Markoca, P. A. Bashulin,
A. F. Plata, V. I. Stanko, 4 pp

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1960, pp 192-197

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Oxidation of Olefins by Performic Acid, by A. F.
Plate, A. A. Mel'nikov, A. A. Ovezova, 3 pp.

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1960, pp 1256-1257.

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Oxidation of 1-Phenyl-1-cyclopentane by Performic
Acid and the Synthesis of 1-Methyl- and 1-Ethyl-2-
Phenylcyclopentane, by A. F. Plate, A. A. Mel'nikov,
T. A. Italinskaya, 6 pp.

RUSSIAN, *Izv. Akad. Nauk SSSR, Ser. Khim.*, Vol. XXX, No. 4,
1960, pp. 1250-1255.

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Aromatization of Some Homologues of Cyclopentane
and Paraffins in Presence of Platinized Carbon, by
A. F. Plate, B. A. Kazanskiy, 4 pp.

RUSSIAN, no per, Zhur Obsch Khim, Vol VII, No 2,
1937, pp 328-329.

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Sci - Chemistry
Mar 1957 CRS/dex

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Optical Method of Investigating Hydrocarbons, ^(u)
Communication 10. Raman Spectra of Some Hapthenes,
by G. V. Potegudov, S. V. Markova, P. A. Bashulin,
A. F. Flato, B. M. Terentyeva, ^(u) 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, 1957, pp 37-42.

Consultants Bureau

Sci - Chem

May 59

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Preparation of 1,2,3,4,7,7-Hexachlorobicyclo⁰
(2.2.1)Hepta-2,5-Diene by Condensation of
Hexachlorocyclopentadiene with Acetylene, by
A. F. Plato, G. A. Baranova, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 7, 1957, pp 873-874.

Consultants Bureau

Sci. - Chem

WJF 50

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Determination of the Individual Hydrocarbon Composition
of Gasolines by the Combination Method. Communication

4. Gasoline From Tuimazin Petroleum, by B. A.
Kazansky, G. S. Landsberg, A. F. Elate, P. A. Bazhulin,
E. A. Mikhaylova, A. L. Liberman, M. M. Sushchinsky,
G. A. Tarasova, S. A. Ukholin, S. V. Voronko, 10 pp.

Full translation.

RUSSIAN, binn per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, USSR, May-Jun 1954, pp 456-469. CIA D 151316

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Consultants Bureau

Scientific - Chemistry

CIS 68/May 55

Preparation of 1,2-Dialkylcycloalkanes.
Synthesis of the Stereoisomeric 1-Butyl-2-
Methylcyclopentanes, by A. P. Plate, A. L.
Lieberman, N. A. Monn, 7 pp.

RUSSIAN, bino per, In Ak Nauk SSSR, Otdel Khim
Nauk, No 4, USSR, 1953, pp. 689-696.

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Scientific - Chemistry

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Chromium Catalysts in ~~XX~~ Diallyl Aromatization,
by A. F. Plate, M. I. Batuev.

RUSSIAN, per, Dok Ak ~~INX~~ Nauk SSSR, Vol LIX,
No 7, 1948, pp 1305-1308. CIA D 151398

Res Info Sv R.545

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53 Nassau St., New York 5, N.Y.

Analysis of the Aromatic Components of Ligroin by
Raman Spectroscopy, by B. A. Kazanski, G. S. Lands-
berg, V. T. Aleksan'sen, T. F. Eulanova, A. L. Liber-
man, E. A. Mikha'ylova, A. F. Plate, Kh. E. Sterin,
S. A. Ukholin, 3 pp.

RUSSIAN, limo per, Iz Ak Nauk SSSR, Ser Fiz,
Vol XVIII, No 6, 1954, pp 704706. CIA C 40664

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Scientific - Physics

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Feb 56 CTS/DEX

Determination of the Individual Hydrocarbon
Composition of Gasolines by the Combination
Method. Communication 6. Karachukhursk

Gasoline by B. A. Kazansky, (I. S. Landsburg,
A. F. Plate, A. L. Liberman, E. A. Mikhailova,
Kh. E. Sterin, T. F. Bulanova, G. A. Tarasova,
V. T. Aleksanyan, 11 pp.

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RUSSIAN, bimo per, Iz Ak Nauk, Otdel Khim Nauk,
No 6, 1954, pp 1053-1066. CIA C 41022

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Scientific - Chemistry
Mar 56 CFS/dex

Preparation of Bicyclo[2·2·1]Hepta-2,5-Diene by
the Condensation of Cyclopentadiene With Acetylene,
by A. F. Plate, M. A. Pryanishnikova, 2 pp.

RUSSIAN, no par, Iz Ak Nauk, Otdel Khim Nauk, No 6,
1956, pp 741-742.

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Synthesis, Properties, and Raman Spectra of 1, 4,
1a, 5, 8, 8a-Hexahydro-1, 4:5, 8-Dimethanonaphtha-
lene and Decahydro-1, 4:5, 8-Dimethanonaphthalene,
by A. F. Flate, N. A. Belikova, M. A. Pryanishnikova,
6 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1960, pp 272-273

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The Mechanism of Contact Transformations of
Hydrocarbons on a Vanadium Catalyst. III.
The Contact Transformations of Ethyl-Cyclo-
Pentane, by A. F. Plate, O. D. Sterligov, 24 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 3, 1943, pp 202-212.

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Sci - Chemistry

Aug 1956

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Reactions of Olefins With Ammonia-Molybdena Catalyst
With the Formation of Acetonitrile, by A. F. Plate,
M. E. Volpin

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Determination of the Individual Hydrocarbon
Composition of Gasolines, by the Combination Method,
Communication 2. Two Gasolines From Kazanbulak
Petroleum, by E. A. Kazansky, A. F. Plate,
L. I. Mikhailova, A. I. Liberman, M. I. Batuev,
N. F. Kulanova, G. A. Tarasova, 10 pp.

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Determination of the Individual Hydrocarbon
Composition of Gasolines by the Combination Method.
Communication 3. Surakhan Gasolines, by B. A.
Kazanskyy, G. B. Landsberg, A. F. Plate, A. I.
Liberman, E. A. Mikhaylova, P. A. Bashulin, M. I.
Batuev, B. A. Ucholin, T. F. Bulanova, G. A.
Tarasova, 10 pp.

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Scientific - Chemistry

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Catalytic Transformations of Amines Over Alumino-
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Box - Chemistry
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Determination of the Composition of the Individual
Hydrocarbons of Gasolines by the Combination Method.
Communication 5. Gasoline from Emba Petroleum, by
B. A. Kuznetsky, G. S. Landsberg, A. F. Plate, P. A.
Bazhulin, A. L. Liberman, E. A. Mikhaylova, M. M.
Stukhinskiy, G. A. Tarasova, S. A. Usholin, S. V.
Vorobko, 12 pp.

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Characterization of Methylcyclopentane Under Pressure
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Baldberg, A. F. Plato, A. N. Gavrilova.

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SLA TT 64-16123

A. F. Plate

May 67

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Hydrocarbons of the Cyclopentane Series With a
Double Bond in the Side Chain. II. Vinylcyclopentane,
by A. F. Plate, P. N. Shafran, N. I. Ratushev,
47 pp.

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Scientific - Chemistry

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On the Reaction of Iotsitch Reagent with -
Cyclopentenyl Chloride, by A. P. Plato, V. I.
Stanko, 4 pp.

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Sci - Chem
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The Reaction of Tetramethylene- and Pentamethylenedi-
magnesium Bromides With Δ^2 -Cyclopentenyl Chloride, by
A. F. Flate, V. I. Stanko, 4 pp.

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Sci - Chem
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Isomerization of Methylcyclohexane and Ethyl-
cyclohexane in the Presence of Aluminum Chloride
Under Pressure of Hydrogen, by A. F. Plate,
L. V. Tarasova, P. A. Akishin, 6 pp.

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Scientific - Chemistry
CTS 74/Nov 55

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Hydrocarbons of the Cyclopentane Series With a
Double Bond in the Side Chain, by A. F. Plate,
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Scientific - Chemistry

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The Mechanism of the Catalytic Transformations of
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Comparative Behavior of Binary Mixtures of Heptane,
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The Aromatization of 2, 2, 4-Trimethylpentane Over
Hofmann Catalyst, A. F. Plate, O. A. Golovina.

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MECHANICAL-CHEMICAL POLYMERIZATION OF
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IRBIN, IL. A. PLATE, 4 PP.

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OCT 62

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pp 460-464. 9093611

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Sci. Chem
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Some Properties of Starch-Methyl Methacrylate Graft Copolymers, by V. A. Kargin, N. A. Plate, E. P. Rebinde.

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The International Macromolecular Chemistry
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Some Properties of Block Copolymers of an Epoxide
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Kargin, N. A. Plate, A. S. Dobryudina.

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Structure and Properties of the Product of Codispersion
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Polymer on the Basis of Bicyclo-2,2,1-Heptadiene, by
V. A. Kargin, N. A. Plate, L. A. Dudnik, 6 pp.

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The Behaviour of Compacted Binary Mixtures of Gold
and Silver Powders on Sintering With Other
Metallic Powders, by Ernest Raub, Werner Plate,
19 pp.

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Sci - Minerals/Metals, metallurgy.

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Physiological Investigations Over the Heart of
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A Contribution to the Study of the Structure
of the Brittle Fracture of Mild Steel, by
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A New Method of Nondestructive Metallographic
Replication, by G. Henry, J. Plureau, 66pp.
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J. Plateau

Use of Bromine in Electron Metallography,
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1958, pp 679-695.

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Jul 62

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Statique Experimentale et Theorique des Liquides,
by J.A.F. Plateau.

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DESCRIPTIONS: Polyvinyl chloride, Creep, Viscosity,
Fused materials, Lubricants, Additives.

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apparatus, this equipment made it possible to obtain in
simple fashion a meaningful reference number for the
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various kinds of PVC, as well as that of lubricant and
stabilizer additives, on workability, can be measured
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